98-381^{Q&As}

Introduction to Programming Using Python

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QUESTION 1

HOTSPOT

You are coding a math utility by using Python.

You are writing a function to compute roots.

The function must meet the following requirements:

```
If a is non-negative, return a**(1/b)
If a is negative and even, return "Result is an imaginary number"
If a is negative and odd, return -(-a)**(1/b)
```

How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:

```
def safe_root(a, b):
```

▼
if a >= 0:
if a % 2 == 0:
else:
elif:

```
    answer = a**(1/b)
```

▼
if a >= 0:
if a % 2 == 0:
else:
elif:

▼
if a >= 0:
if a % 2 == 0:
else:
elif:

```
    answer = "Result is an imaginary number"
```

▼
if a >= 0:
if a % 2 == 0:
else:
elif:

```
    answer = -(-a)**(1/b)

    return answer
```

Correct Answer:

```
def safe_root(a, b):
```

	▼
if a >= 0:	
if a % 2 == 0:	
else:	
elif:	

```
    answer = a**(1/b)
```

	▼
if a >= 0:	
if a % 2 == 0:	
else:	
elif:	

		▼
if a >= 0:		
if a % 2 == 0:		
else:		
elif:		

```
    answer = "Result is an imaginary number"
```

		▼
if a >= 0:		
if a % 2 == 0:		
else:		
elif:		

```
    answer = -(-a)**(1/b)

    return answer
```

QUESTION 2

HOTSPOT

The ABC Video company needs a way to determine the cost that a customer will pay for renting a DVD. The cost is dependent on the time of day the DVD is returned. However, there are also special rates on Thursdays and Sundays. The fee

structure is shown in the following list:

The cost is $1.59 per night.

If the DVD is returned after 8 PM, the customer will be charged an extra day.

If the video is rented on a Sunday, the customer gets 30% off for as long as they keep the video.

If the video is rented on a Thursday, the customer gets 50% off for as long as they keep the video.

You need to write code to meet the requirements.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:

Answer Area

```
#   ABC        Video, DVD Rental Calculator

ontime = input("Was video returned before 8 pm? y or n").lower()

days_rented = int(input("How many days was video rented?"))

day_rented = input("What day was the video rented?").capitalize()

cost_per_day = 1.59

if ontime [ ▼ ]
          != "n":
          == "n":
          == "y":
    days_rented +-1

if day_rented [ ▼ ]
          == "Sunday ":
          >= "Sunday ":
          is " Sunday ":
    total = (days_rented * cost_per_day) * .7

elif day_rented [ ▼ ]
          == "Thursday":
          <= "Thursday":
          is "Thursday":
    total = (days_rented * cost_per_day) * .5

else:
    total = days_rented * cost_per_day

print("Cost of the DVD rental is : $", total)
```

Correct Answer:

Answer Area

```
#    ABC        Video, DVD Rental Calculator

ontime = input("Was video returned before 8 pm? y or n").lower()

days_rented = int(input("How many days was video rented?"))

day_rented = input("What day was the video rented?").capitalize()

cost_per_day = 1.59

if ontime [ ▼ ]
         != "n":
         == "n":
         == "y":
    days_rented +-1

if day_rented [ ▼ ]
         == "Sunday ":
         >= "Sunday ":
         is " Sunday ":
    total = (days_rented * cost_per_day) * .7

elif day_rented [ ▼ ]
         == "Thursday":
         <= "Thursday":
         is "Thursday":
    total = (days_rented * cost_per_day) * .5

else:

    total = days_rented * cost_per_day

print("Cost of the DVD rental is : $", total)
```

QUESTION 3

This question requires that you evaluate the underlined text to determine if it is correct.

You write the following code:

```
import sys
try:
    file_in = open("in.txt", 'r')
    file_out = open("out.txt", 'w+')
except IOError:
    print('cannot open', file_name)
else:
    i = 1
    for line in file_in:
        print(line.rstrip())
        file_out.write("line " + str(i) + ": " + line)
        i = i + 1
    file_in.close()
    file_out.close()
```

The out.txt file does not exist. You run the code. The code will execute without error.

Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

A. No change is needed

B. The code runs, but generates a logic error

C. The code will generate a runtime error

D. The code will generate a syntax error

Correct Answer: A

References: https://docs.python.org/2/library/exceptions.html

QUESTION 4

HOTSPOT

You develop a Python application for your company.

You have the following code. Line numbers are included for reference only.

```
01 def main(a,b,c,d):
02     value = a+b*c-d
03     return value
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

Hot Area:

Answer Area

Which part of the expression will be evaluated first?

a+b
b*c
c-d

Which operation will be evaluated second?

addition
subtraction

Which expression is equivalent to the expression in the function?

(a+b) * (c-d)
(a + (b*c)) – d
a + ((b * c) – d)

Correct Answer:

Answer Area

Which part of the expression will be evaluated first?

a+b
b*c
c-d

Which operation will be evaluated second?

addition
subtraction

Which expression is equivalent to the expression in the function?

(a+b) * (c-d)
(a + (b*c)) – d
a + ((b * c) – d)

QUESTION 5

You develop a Python application for your company.

You need to accept input from the user and print that information to the user screen.

You have started with the following code. Line numbers are included for reference only.

```
01 print("What is your name?")
02
03 print(name)
```

Which code should you write at line 02?

A. name = input

B. input("name")

C. input(name)

D. name = input()

Correct Answer: B